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APPLICATION NO. FILING DATE		G DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/033,051	10/25/2001		Pankaj K. Mehrotra	K-1436PD 7840		
75	590	06/03/2003		·		
Kennametal Inc.			EXAMINER			
P.O. Box 231 Latrobe, PA 15650-0231				FIORILLA, CHRISTOPHER A		
				ART UNIT	PAPER NUMBER	
				1731	4	
				DATE MAILED: 06/03/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.		Applicant(s)				
	Office Action Summany	10/033,051		MEHROTRA ET	AL.			
	Office Action Summary	Examiner		Art Unit				
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Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE I - Exter after - If the - If NO - Failu - Any r earne	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION.  SIX (6) MONTHS from the mailing date of this communication.  period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, howeverthe within the statutory mill apply and will expiring a supply and will expiring the application.	wever, may a reply be tim  inimum of thirty (30) days  e SIX (6) MONTHS from to become ABADONE	ely filed  s will be considered timel the mailing date of this c	ly. ommunication.			
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,	1) Responsive to communication(s) filed on							
2a)								
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. <b>Disposition of Claims</b>								
4)⊠ Claim(s) <u>1-24,48,49 and 52</u> is/are pending in the application.								
ſ	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
6)⊠	6)⊠ Claim(s) <u>1,2,5-9,17-20,48 and 49</u> is/are rejected.							
7)🖂	Claim(s) 3,4,10-16,21-24 and 52 is/are objected	d to.						
	Claim(s) are subject to restriction and/or	election require	ement.					
Application	,							
	The specification is objected to by the Examiner.							
ا الــا(۱۰	he drawing(s) filed on is/are: a) accept							
   11)□ T	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
,	If approved, corrected drawings are required in repl			red by the Examine	er.			
12)□ T	The oath or declaration is objected to by the Exa		Alon.					
	nder 35 U.S.C. §§ 119 and 120							
l	Acknowledgment is made of a claim for foreign	nriority under 3	5 I I S C & 110/a).	·(d) or (f)				
i	All b) Some * c) None of:	priority under o	5 6.6.6. g 175(a)	(u) or (i).				
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
3	3. Copies of the certified copies of the priority documents have been received in this National Stage							
* Se	application from the International Bure se the attached detailed Office action for a list of	eau (PCT Rule	17.2(a)).		Jugo			
14)□ Ac	knowledgment is made of a claim for domestic	priority under 3	5 U.S.C. § 119(e)	(to a provisional	application).			
a)	The translation of the foreign language provices the translation of the foreign language provices the translation of the transl	isional applicati	on has been recei	ived.	•			
Attachment(		. •	33 23	· · · · · · · · · · · · · · · · · · ·	,			
2) Notice 3) Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s) 3.	4)	Interview Summary (I Notice of Informal Pa Other:					
U.S. Patent and Trac PTO-326 (Rev.		on Summary	1	Part of Paper No. 4				

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1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

2. The abstract of the disclosure is objected to because it contains legal phraseology (i.e. "comprising"). Correction is required. See MPEP § 608.01(b).

3. Claim 2 is objected to because of the following informalities:

Where a claim sets forth a plurality of elements or steps, each element or step of the claim should be separated by a line indentation. See 37 CFR 1.75(i). See MPEP 608.01(m). The elements of claim 2 should be separated by line indentations.

Appropriate correction is required.

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

- 5. Claims 1,2,5,6,9,48 and 49 are rejected under 35 U.S.C. 102(b) as being anticipated by Yoshimura et al. (5,066,553).
- 6. Claims 1,2,5,48 and 49 are rejected under 35 U.S.C. 102(b) as being anticipated by JP 4136174A.
- 7. Claims 1,5,6,17,48 and 49 are rejected under 35 U.S.C. 102(b) as being anticipated by Jindal et al. (5,264,297).
- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any

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evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out

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the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c)

and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

10. Claims 1,5,6,17,18,19,20,48 and 49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jindal et al. (5,264,297) in view of Mehrotra et al. (6,204,213).

Jindal teaches the heat treating and coating application to cutting inserts (e.g. alumina based inserts).

Mehrotra et al. teaches cutting inserts made from alumina, SiC whiskers, zirconia and titanium carbonitride and discloses that these inserts are made by forming the powder mixture and uniaxially hot pressing the formed mixture. It would have been obvious to one of ordinary skill in the art at the time of the invention to use this composition and forming process in the process of Jindal et al. in view of the generic disclosure therein to obtain a cutting insert with the desired physical properties.

11. Claims 3,4,10-16,21-24 and 52 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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- 12. The following is a statement of reasons for the indication of allowable subject matter:

  The prior art of record does not teach or suggest a process which uses the heating schedule or
  material compositions as substantially set forth in the claims, nor does it disclose the use of a
  setting powder as substantially set forth in the claims, nor does it disclose a grinding step after
  heat treatment.
- 13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher A. Fiorilla whose telephone number is 703-308-0674. The examiner can normally be reached on M-F, 6:30am-3:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven P. Griffin can be reached on 703-308-1164. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-7718 for regular communications and 703-305-3599 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0651.

Christopher A. Fiorilla Primary Examiner

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